

City of Port St. Lucie



Mayor JoAnn M. Faiella

Vice Mayor Linda Bartz

Councilwoman Michelle Lee Berger

Councilwoman Shannon M. Martin

Councilman Jack Kelly

Gregory J. Oravec, City Manager

Energy Audit & Contract Process

Honeywell

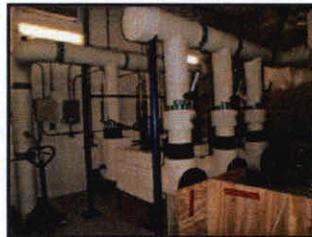
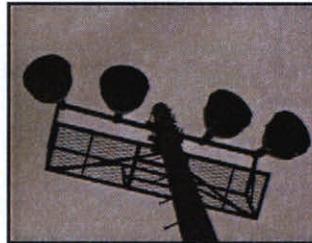
- **Over 170 City Facilities & Infrastructure Systems Surveyed**
 - **Conducted 7 Workshops with Staff**
 - **Submitted 30+ Different Measures Recommended in 78 Facilities**
 - **Report Submitted 1/30/12 & Presented at City Council Retreat**
- **Contract Refinement & Negotiation**
 - **Scope, Price & Savings Adjustments**
 - **Collaboration with City on Self-performed Scope Items**
 - **Focus on Energy & Cost Savings, Payback**



Conservation Measures Included

Honeywell

1. Generator Load Shedding
2. Building Lighting & Controls
3. Sports Lighting & Controls *
4. Vending Misers *
5. Water Conservation
6. Building Envelope
7. Municipal Complex Chiller Plant
8. Chilled Water Pumping
9. HVAC/DX Systems
10. MIS Server Room A/C
11. Variable Air Volume (VAV) HVAC
12. VAV Kitchen Exhaust System
13. Building Automation / Controls
14. Computer Power Management *
15. Green Print *
16. Pedestrian Street Lighting



* These items include City direct purchase or self-perform.

Program Summary

Honeywell

- **Net Positive Cash Flow: \$1,739,723** (15 year Finance Term)
- **Total Savings: \$11,907,310** (15 year program term)
 - \$644,322 First Year Savings (Energy & Operational)
 - 12.4 Year Payback
- **Total Improvements:**

	\$7,965,132
• Honeywell:	\$7,098,950
• City Self-perform:	\$ 866,182
• Measurement & Verification:	\$ 46,416 (Yr 1)
- **150 Jobs - Direct and Indirect Impact**
- **Improved Quality of Life, Comfort & Safety**
- **A More “Green” and Sustainable City**
 - 5,395 Mega-Watt Hours Electrical Reduction
 - Equivalent to: Emissions from 730 passenger vehicles
Electricity use in 464 homes



City of Port St Lucie - Calculated Energy Savir

No.	Description	Energy Savings Total Calculated Energy Savings	Energy Savings % of Baseline Total Utility Cost	Calculated Energy Savings				Total Gallons	Gallons \$\$	O&M Savings \$/yr
				Electric KWh	Electric KWh Baseline	Electric \$	Electric \$ baseline			
1	Generator Load Shedding	\$19,226	0.56%	0	n/a	\$19,226	n/a			
2	Building Lighting And Controls	\$56,828	1.65%	676,958	1.7%	\$56,828	1.7%		\$4,773	
3	Sports Lighting and Controls	\$62,564	1.82%	607,864	1.6%	\$62,564	1.8%		\$29,181	
4	Vending Misers	\$3,936	0.11%	43,730	0.1%	\$3,936	0.1%			
5	Water Conservation	\$9,867	0.29%	18,921	0.0%	\$1,133	0.0%	686,664	\$8,734	
6	Building Envelope Improvements	\$22,996	0.67%	272,789	0.7%	\$22,996	0.7%		\$699	
7	City Hall Campus Chiller Improvements	\$116,166	3.38%	1,347,129	3.5%	\$123,383	3.6%	-1,261,772	-\$7,217	
8	Chilled Water Pumping Optimization	\$23,687	0.69%	425,160	1.1%	\$23,687	0.7%		\$32,709	
9	Packaged DX System Replacement	\$7,283	0.21%	4,657	0.0%	\$7,283	0.2%		\$7,079	
10	Dedicated AC for City Hall MIS Server Room	\$5,949	0.17%	12,371	0.0%	\$5,949	0.2%			
11	VAV Air Handling System Retrofits / Optimization	\$2,409	0.07%	33,683	0.1%	\$2,409	0.1%			
12	Variable Air Volume Kitchen Exhaust / Makeup System	\$12,915	0.38%	117,405	0.3%	\$12,915	0.4%			
13	Building Automation	\$72,149	2.10%	822,505	2.1%	\$72,149	2.1%		\$11,094	
14	Automated Computer Power Management	\$51,000	1.48%	713,070	1.8%	\$51,000	1.5%			
15	Green Print Printing Cost Reduction	\$0	0.00%	0	n/a	\$0	n/a		\$43,781	
16	Street Lighting	\$29,109	0.85%	299,264	0.8%	\$29,109	0.9%		\$18,922	
		\$496,084	14.4%	5,395,504	13.9%	\$ 494,566	14.0%	-575,107	\$1,517	\$148,238